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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
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BLAKELY S	OKOLOFF TAYLOR	KLIMACH,	KLIMACH, PAULA W		
	IRE BOULEVARD		A DOT LOVE	DARED MILITER	
SEVENTH FL	OOR	ART UNIT	PAPER NUMBER		
LOS ANGELE	S, CA 90025-1030		2135		

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Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application	on No.	Applicant(s)				
Office Action Summary		09/805,29	99	ROBBINS ET AL.				
		Examine		Art Unit				
		Paula W.	Klimach	2135				
Period fo	- The MAILING DATE of this communi r Reply	cation appears on the	cover sheet with the c	orrespondence ad	dress			
WHIC - Exten after 5 - If NO - Failur Any re	DRTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE MASSIONS OF THE MASSION	AILING DATE OF TH of 37 CFR 1.136(a). In no evunication. lutory period will apply and will, by statute, cause the app	HIS COMMUNICATION ent, however, may a reply be timed to the six (6) MONTHS from the station to become ABANDONES	I. ely filed the mailing date of this or O (35 U.S.C. § 133).				
Status					•			
1)	Responsive to communication(s) file	d on <i>15 August 2005</i>	i.					
•	·	b) This action is r						
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	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4) 🖂	4)⊠ Claim(s) <u>1-21,24,26-28 and 30</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.							
6)⊠	6)⊠ Claim(s) <u>1-21, 24, 26-28, and 30</u> is/are rejected.							
7)	7) Claim(s) is/are objected to.							
8)[	Claim(s) are subject to restrict	tion and/or election r	equirement.					
Applicati	on Papers							
9) 🗌 .	The specification is objected to by the	Examiner.						
10) 🔲 🤄	The drawing(s) filed on is/are:	a) accepted or b)	objected to by the E	Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	nder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
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Attachment	r(s)		, <u>, , , , , , , , , , , , , , , , , , </u>	•				
	e of References Cited (PTO-892)		4) Interview Summary					
· —	e of Draftsperson's Patent Drawing Review (P nation Disclosure Statement(s) (PTO-1449 or I		Paper No(s)/Mail Da 5) Notice of Informal P		O-152)			
. —	r No(s)/Mail Date	, . 3/35/03/	6) Other:	,	-			

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#### **DETAILED ACTION**

#### Response to Amendment

This office action is in response to amendment filed on 08/15/05. The amendment filed on 08/15/05 have been entered and made of record. Therefore, presently pending claims are 1-21, 24, 26-28, and 30.

### Response to Arguments

Applicant's arguments filed 08/15/05 have been fully considered but they are not persuasive because of following reasons.

Applicant argued that Slavin, Leppek, and Kousa do not disclose or suggest different individual decryption process to decrypt an encrypted content differently form one another. This is not found persuasive. In the combination of Slavin, Leppek, and Kousa, Leppek discloses different individual encryption process to encrypt a decrypted content differently from one another. The applicant argues that the data processing scheme of the present invention is effectively a virtual encryption and decryption scheme, as it does not actually perform any encrypting of the data, but rather assembles selected ones of a plurality of true encryption mechanisms into a cascaded sequence of successively different encryption operator. However the applicant goes further to disclose that Leppek then utilizes the assembled selection of plurality of sequence of successively different operators to encrypt the stream (page 13) therefore; the system does indeed perform encryption. The applicant argues further that the system of Leppek simply uses decryption operators from a decryption operator database to decrypt the stream that was virtually encrypted with a sequence of encryptor operators. The database of the system disclosed by Leppek contains routines and operators such as PGP and

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DES. The listed routines of PGP and DES are algorithms which when combined into the sequence corresponds to a process which is defined as a series of operations performed in the making or treatment of a product. In this case the product is the resulting ciphertext. The encryption and decryption processes are different for every key (part 170 in figure 2 and part 270 in figure 3) that is entered into the system.

In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5

USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, Leppek would modify the system of Slavin because using the sequence of operators as disclosed in the system of Leppek enables the system to scramble the discernable footprint (Leppek column 2 lines 52-38). In addition modifying the Slavin system to generate the keys from the Master key as disclosed by Kousa would be desirable because it provides increased security from unauthorized access by others (Kousa column 6 lines 60-67). The motivation to combine has been taken from the references that are used to modify the system of Slavin.

The examiner is not trying to teach the invention but is merely trying to interpret the claim language in its broadest and reasonable meaning. The examiner will not interpret to read narrowly the claim language to read exactly from the specification, but will interpret the claim language in the broadest reasonable interpretation in view of the specification. Therefore, the examiner asserts that the combination of Slavin, Leppek, and Kousa do teach or suggest the

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subject matter broadly recited in independent Claims 1, 4, 7, 12, 17, 21, 24, and 28. Dependent Claims 2-3, 5-6, 8-11, 13-16, 18-21, 26-27, and 30 are also rejected at least by virtue of their dependency on independent claims and by other reason set forth in this office action.

Accordingly, rejections for claims 1-21, 24, 26-28, and 30 are respectfully maintained.

## Claim Objections

Claims 27 and 30 are objected to because of the following informalities: The claims are dependent on already canceled claims 25 and 29. Appropriate correction is required.

For purpose of examination examiner assumes claims 27 is dependent on 24; and claim 30 is dependent on claim 28.

#### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 7-11, and 17-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Slavin (5,956,407) in view of Leppek (5,933,501) and further in view of Kousa (4,797,672).

In reference to claim 1, 7, 17, and 21, regarding the decryption generating section coupled to the key generating section and a main decryption section, the decryption generating section generating a plurality of individual decryption processes based on the main decryption section and the plurality of individual keys. The monitors disclosed by Slavin generate a

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plurality of individual decryption processes that are based on the main decryption section. The individual processes use the values of p2 and or q2 that were provided to the monitor to decrypt and therefore eavesdrop on the transmitted information. The receiver calculates and publishes the different decryption processes En used by the monitor, which are based on the main decryption section's public and private keys (Fig. 2 and Fig. 3).

Regarding each of the plurality of individual decryption processes being different from one another, although Slavin discloses a system that creates a decoding key as a function of the prime factors used to create the encoding key (column 6 lines 31-34), Slavin does not expressly disclose individual decryption processes that are different form one another.

Leppek disclose a system that combines a selected plurality of different encryption operators stored in an encryption operator database into a compound sequence of encryption operators (abstract). Therefore Leppek discloses a system that generates a plurality of individual decryption processes wherein each decryption process is different from one another (column 4 lines 33-67). The system uses one key in conjunction with only a one of the plurality of decryption processes (Fig. 3).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to add a system for creating a plurality of encryption sequences as in the system of Leppek to system of creating a plurality of keys of Slavin. One of ordinary skill in the art would have been motivated to do this because it would scramble the data stream having no readily discernible encryption 'footprint' (column 2 lines 25-38).

Regarding the main encryption section, the main encryption section using the main key to encrypt content. The sender encrypts the message using Eun.

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Slavin does not disclose the different parts disclosed above as belonging in the same circuit. At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to create a system that receives and transmits therefore including all the parts as disclosed above in the same circuit. One of ordinary skill in the art would have been motivated to do this because it would secure the transmitted information as well as the information that is received by synchronizing the distribution of key.

Although Slavin discloses a key generation section that generates section to generate a plurality of individual keys based on a main key each based on a main key and different from one another, Slavin does not disclose only one of the plurality of individual keys is used in the decryption processes.

Kousa discloses a system that generates a plurality of keys from a master key (seed) wherein only one of the plurality of individual keys is used in conjunction with only one decryption processes (column 4 lines 30-53).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to generate a plurality of keys from a master key and use it with one decryption process as in Kousa in the system of Slavin. One of ordinary skill in the art would have been motivated to do this because it provides increased security from unauthorized access by others (Kousa column 6 lines 60-67).

In reference to claims 2, 8, 18, wherein each of the plurality of individual decryption processes each use a selected one of the plurality of individual keys. Fig. 2 discloses the monitor only being provided with p2, which is used to calculate the key and then decrypt that data.

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In reference to claims 3, 9, wherein the plurality of individual decryption processes decrypt the content from the cypher-content by using the plurality of individual keys. Column 4 line 40 discloses providing the monitor with p2 and q2. Since two keys that depend on the main key are provided, this number could be increased to more.

In reference to claims 10 and 19, wherein the encrypting generates cipher content from the content (Fig. 5).

In reference to claims 11 and 20, wherein the plurality of individual decryption processes decrypt the content form the cipher-content by using the plurality of individual keys (Fig. 5 section describing the activity of the monitor).

Claims 4-6, 12-16, 24, 26-28, and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kousa in view of Leppek and Morris et al (4,503,287).

In reference to claims 4, 12, 24, and 28, Kousa discloses a system for generating a plurality of individual keys based on a main key (seed), each of said plurality of individual keys being different from one another (column 2 lines 3-45).

Regarding each of the plurality of individual decryption processes being different from one another, although Kousa discloses encrypting information between the base and the node using the plurality of keys, Kousa does not disclose generating a plurality of individual decryption processes based on a main decryption process and.

Leppek disclose a system that combines a selected plurality of different encryption operators stored in an encryption operator database into a compound sequence of encryption operators (abstract). Therefore Leppek discloses a system that generates a plurality of individual

decryption processes wherein each decryption process is different from one another (column 4 lines 33-67). The key is sent to the system of Leppek and therefore key generator is coupled to the encryption generating section (fig. 2 part 170).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to add a system for creating a plurality of encryption sequences as in the system of Leppek using the plurality of keys generated by the system of Kousa. One of ordinary skill in the art would have been motivated to do this because it would scramble the data stream having no readily discernible encryption 'footprint' (column 2 lines 25-38).

Although the system of Kousa discloses a system wherein the Master key is known, Kousa does not disclose the main decryption section using the main key to decrypt ciphercontent.

Morris discloses a system wherein the main key (Master key) is used to decipher the session encryptor key, which is transmitted as cipher text (column 4 lines 39-43).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to decrypt the session cipher text as in Morris in the system of Kousa. One of ordinary skill in the art would have been motivated to do this because the Master key is the same in the terminal and the host and therefore can be used to send the session key safely from one device to another using encryption.

In reference to claims 5 and 13 wherein the plurality of individual encryption processes to each use one of the plurality of individual keys.

Leppek disclose a system that combines a selected plurality of different encryption operators stored in an encryption operator database into a compound sequence of encryption

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operators (abstract). Therefore Leppek discloses a system that generates a plurality of individual decryption processes wherein each decryption process is different from one another (column 4 lines 33-67). The key is sent to the system of Leppek and therefore the system uses one key (fig. 2).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to add a system for creating a plurality of encryption sequences as in the system of Leppek using the key generated by the system of Kousa. One of ordinary skill in the art would have been motivated to do this because it would scramble the data stream having no readily discernible encryption 'footprint' (column 2 lines 25-38).

In reference to claims 6, 14, and 30, wherein the plurality of individual encryption processes encrypt the content forming the cipher-content by using the plurality of individual keys.

Leppek disclose a system that combines a selected plurality of different encryption operators stored in an encryption operator database into a compound sequence of encryption operators (abstract). Therefore Leppek discloses a system that generates a plurality of individual decryption processes wherein each decryption process is different from one another (column 4 lines 33-67). The encryption processes generated by Leppek encrypt the content forming the cypher-content (column 5 lines 34-52).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to add a system for creating a plurality of encryption sequences as in the system of Leppek using the key generated by the system of Kousa. One of ordinary skill in the art would

have been motivated to do this because it would scramble the data stream having no readily discernible encryption 'footprint' (column 2 lines 25-38).

In reference to claims 15 and 26, wherein the decryption process generates a content from the cipher content. The system of Morris generates the session key from the encrypted session key.

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to decrypt the session cipher text as in Morris in the system of Case. One of ordinary skill in the art would have been motivated to do this because the Master key is the same in the terminal and the host and therefore can be used to send the session key safely from one device to another using encryption.

In reference to claims 16 and 27, wherein the plurality of individual encryption processes encrypt the content forming the cipher-content by using the plurality of individual keys.

Leppek disclose a system that combines a selected plurality of different encryption operators stored in an encryption operator database into a compound sequence of encryption operators (abstract). Therefore Leppek discloses a system that generates a plurality of individual decryption processes wherein each decryption process is different from one another (column 4 lines 33-67). The encryption processes generated by Leppek encrypt the content forming the cypher-content (column 5 lines 34-52).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to add a system for creating a plurality of encryption sequences as in the system of Leppek using the key generated by the system of Kousa. One of ordinary skill in the art would

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have been motivated to do this because it would scramble the data stream having no readily discernible encryption 'footprint' (column 2 lines 25-38).

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paula W. Klimach whose telephone number is (571) 272-3854. The examiner can normally be reached on Mon to Thr 9:30 a.m to 5:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on (571) 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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PWK Monday, October 31, 2005 Primary Examine

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